WHAT IS CLAIMED IS:

1. A device for the automatic adjustment of the position of at least one headlight of a motor vehicle in relation to the bodywork by pivoting around at least one axis which is essentially parallel to the road surface, the said device comprising at least one actuator capable of making the said headlight(s) pivot, at least one sensor integral with the vehicle, and more particularly fixed to the chassis close to one of the vehicle wheels, and at least one electronic system to control the actuator with the aid of information provided by the sensor(s), wherein the said electronic control system, or at least the essential part of its components, is fixed to or implanted in the actuator.

2. A device according to claim 1, which comprises at least two sensors, one at the front and one at the rear of the vehicle.

3. A device according to claim 1, which comprises one electronic control system to adjust both headlights of the vehicle, with one actuator per headlight, the said system being connected to one of the two actuators.

4. A device according to claim 3, which comprises the master electronic system fixed to or implanted in an actuator and a slave simplified electronic system in the other actuator.

5. A device according to claim 1, which comprises an electronic control system connected to one actuator per headlight.

6. A device according to claim 1, wherein the electronic control system(s) can be removed from the actuator to which it(they) is(are) fixed or in which it(they) are implanted.

7. A device according to claim 1, wherein the electronic system is in the form of an electronic card.

8. A device according to claim 1, wherein the electronic control system(s) is(are) digital.

9. A device according to claim 8, wherein the electronic control system(s) comprises (comprise) a computer.

10. A device according to claim 1, wherein the electronic control system(s) is (are) analogue.

11. A device according to claim 10, wherein the electronic control system(s) comprises (comprise) at least one integrator, at least one subtracter and at least one follower.

12. A device according to claim 10, wherein the electronic control system(s) comprises (comprise) a unit to handle faults, a unit to calculate the weighted average of the sensors, a unit which is an adder, a unit which is an overvoltage protection system, a unit which is a window comparator, a unit which is a filter system, a unit which is a pulse generator system, and a unit which is an assembly with at least two resistors.

13. A device according to claim 10, wherein the electronic control system(s) comprises (comprise) at least one potentiometer.

14. A device according to claim 10, wherein the electronic control system(s) comprises (comprise) resistors, more particularly two, which are located outside the actuators, on the electrical wiring of the vehicle or near the sensors.

15. A device according to claim 1, which has means of initialisation designed to adjust the motor of the actuator back to its nominal position, the said means comprising a means of adjustment accessible from outside the actuator box and connected to a warning device, more particularly visual, audible or electrical, of the state of progress of the initialisation process.

16. A device according to claim 15, wherein the warning device is a light source such as a light-emitting diode.

17. A device according to claim 16, wherein the light source is integrated into the box of the actuator and protected by a transparent screen, more particularly in the form of a transparent moulding on the said box.

18. A device according to claim 15, wherein the adjustment device may be adjusted automatically by a screwdriver, this tool being controlled by a stop/start control

system using a sensor, more particularly an optical sensor located on the said tool, capable of detecting the end-of-adjustment warning signal from the warning device.

19. A device according to claim 1, which has a sequential mode of operation.

20. A device according to claim 1, which comprises a fault management mode by instructing the actuator to tilt the light(s) downwards.

21. A device according to claim 20, which provides for a visual warning device, such as a light-emitting diode, or an audible one, on the actuator and/or headlight and/or vehicle dashboard when the fault management system is activated.

22. A motor vehicle which has an adjustment device according to claim 1.